

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-23 (canceled).

1 Claim 24 (new): An antenna array comprising:

2 first and second separate sheet-shaped supports,
3 wherein each of the first and second sheet-shaped supports
4 is folded along corresponding first and second fold-lines in
5 said first and second sheet-shaped supports, respectively,
6 so as to form through each of said first and second
7 sheet-shaped supports:

8 a first support plane, in each one of the first
9 and second sheet-shaped supports and respectively along said
10 first and second ones of the fold-lines, having a first
11 antenna structure arranged for receiving or emitting
12 electro-magnetic radiation; and

13 a second support plane, in each one of the first
14 and second sheet-shaped supports and adjacent to said first
15 support plane therein and respectively along said first and
16 second ones of the fold-lines, the second support plane in
17 said each one of the first and second sheet-shaped supports
18 being positioned at an angle with respect to the first
19 support plane also in said each one of the first and second
20 sheet-shaped supports, respectively, and having a second
21 antenna structure arranged for receiving or emitting
22 electro-magnetic radiation which differs in at least one

property from the electromagnetic radiation which is
received or emitted by the first antenna structure; and
wherein the first and second sheet-shaped supports are
physically connected to each other at or near the first and
second fold-lines.

Claim 25 (new): The antenna array as recited in claim 24
wherein the first sheet-shaped support is folded along two
separate fold-lines.

Claim 26 (new): The antenna array as recited in claim 24
wherein:
the first antenna structure is arranged for receiving
or emitting electro-magnetic radiation of a first
polarization; and
the second antenna structure is arranged for receiving
or emitting electro-magnetic radiation of a second
polarization different from the first polarization.

Claim 27 (new): The antenna array as recited in claim 25
further comprising, for the first sheet-shaped support, a
base plane adjacent to a side of one of said two separate
fold-lines in the first sheet-shaped support, one of the
first and second support planes being adjacent to another
side of said one of said two separate fold-lines, and said
base plane being positioned at an angle with respect to the
first and second support planes.

Claim 28 (new): The antenna array as recited in claim 24
wherein one of the first and second sheet-shaped supports
comprises a first electrically insulating layer.

1 Claim 29 (new): The antenna array as recited in claim 28
2 wherein the first electrically insulating layer comprises a
3 flexible material.

1 Claim 30 (new): The antenna array as recited in claim 28
2 further comprising:
3 a first electrically conducting layer located at a
4 first side of the first electrically insulating layer; and
5 a second electrically conducting layer located at a
6 second side of the first electrically insulating layer and
7 shaped into a feed.

1 Claim 31 (new): The antenna array as recited in claim 30
2 further comprising a third electrically conducting layer
3 situated at the second side of the first electrically
4 insulating layer and shaped into connecting lines for
5 transmitting signals from or to the first antenna structure.

1 Claim 32 (new): The antenna array as recited in claim 31
2 wherein:
3 the feed lies between the first electrically insulating
4 layer and a second electrically insulating layer; and
5 the connecting lines are present at a side of the
6 second electrically insulating layer facing away from the
7 first electrically insulating layer.

1 Claim 33 (new): The antenna array as recited in claim 27
2 wherein the first conducting layer extends over a portion of
3 the base plane.

1 Claim 34 (new): The antenna array as recited in claim 30
2 further comprising an amplifier element positioned at the

3 second side of the first electrically insulating layer, said
4 amplifier element having signal and reference inputs, the
5 signal input being connected to the feed and the reference
6 input being connected to ground.

1 Claim 35 (new): The antenna array as recited in claim 30
2 wherein the first electrically conducting layer is used as
3 ground.

1 Claim 36 (new): The antenna array as recited in claim 24
2 wherein the first and second antenna structures comprise
3 flat antennas.

1 Claim 37 (new): The antenna array as recited in claim 36
2 wherein the first and second antenna structures comprise
3 vertical antennas which are sensitive to incident radiation
4 with a radiation component parallel to respective planes in
5 which the first and second antenna structures are oriented.

1 Claim 38 (new): The antenna array as recited in claim 37
2 wherein the first and second antenna structures comprise
3 tapered slot antennas.

1 Claim 39 (new): The antenna array as recited in claim 27
2 wherein the first sheet-shaped support is folded along said
3 one of said two separate fold-lines such that one of the
4 first support plane, the second support plane and the base
5 plane, so as to collectively define three planes, is
6 positioned substantially perpendicular to one of the other
7 ones of said three planes.

1 Claim 40 (new): The antenna array as recited in claim 27
2 wherein the base plane is substantially rectangular, said
3 first support plane is positioned at a first side of the
4 rectangular base plane and said second support plane is
5 positioned at a second side of the rectangular base plane
6 transverse to the first side.

1 Claim 41 (new): The antenna array as recited in claim 24
2 wherein the first sheet-shaped support is folded to a
3 sleeve-like shape.

1 Claim 42 (new): The antenna array as recited in claim 24
2 wherein either said first or said second antenna structures
3 is connectable, via a non-contact connection, to a signal
4 processing device externally situated to the antenna array.

1 Claim 43 (new): A method for manufacturing an antenna array
2 comprising the steps of:

3 folding each of first and second sheet-shaped supports
4 along corresponding first and second fold-lines in said
5 first and second sheet-shaped supports so as to form:

6 a first support plane, in each one of the first
7 and second sheet-shaped supports and respectively along said
8 first and second ones of the fold-lines, having a first
9 antenna structure arranged for receiving or emitting
10 electro-magnetic radiation; and

11 a second support plane, in each one of the first
12 and second sheet-shaped supports and adjacent to said first
13 support plane therein and respectively along said first and
14 second ones of the fold-lines, the second support plane in
15 said each one of the first and second sheet-shaped supports
16 being positioned at an angle with respect to the first

17 support plane also in said each one of the first and second
18 sheet-shaped supports, respectively, and having a second
19 antenna structure arranged for receiving or emitting
20 electro-magnetic radiation which differs in at least one
21 property from the electromagnetic radiation which is
22 received or emitted by the first antenna structure; and
23 wherein the first and second sheet-shaped supports are
24 physically connected to each other at or near the first and
25 second fold-lines.